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| 1. Record Nr.           | UNINA9910144135703321   |
| Autore                  | Chern Chorng-Shyan  |
| Titolo                  | Principles and applications of emulsion polymerization [[electronic resource] /] / Chorng-Shyan Chern   |
| Pubbl/distr/stampa      | Hoboken, N.J., : Wiley, c2008   |
| ISBN                    | 1-281-75190-1<br>9786611751906<br>0-470-37794-1<br>0-470-37793-3  |
| Descrizione fisica      | 1 online resource (268 p.)  |
| Disciplina              | 668.9<br>668.92   |
| Soggetti                | Emulsion polymerization<br>Electronic books.  |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Note generali           | Description based upon print version of record.   |
| Nota di bibliografia    | Includes bibliographical references and index.  |
| Nota di contenuto       | PRINCIPLES AND APPLICATIONS OF EMULSION POLYMERIZATION;<br>CONTENTS; Preface; 1 Introduction; 1.1 Free Radical Polymerization;<br>1.1.1 Free Radical Polymerization Mechanisms; 1.1.2 Free Radical<br>Polymerization Kinetics; 1.2 Emulsion Polymerization; 1.2.1<br>Conventional Emulsion Polymerization; 1.2.2 Emulsion Polymerization<br>Processes; 1.2.3 Miniemulsion Polymerization; 1.2.4 Microemulsion<br>Polymerization; 1.2.5 Inverse Emulsion Polymerization; 1.3 Colloidal<br>Stability; 1.3.1 A Critical but Often Ignored Issue; 1.3.2 Electrostatic<br>Interactions; 1.3.3 Steric Interactions; 1.3.4 Mechanical Stability<br>1.4 Some Performance Properties for Industrial Applications1.4.1<br>Rheology; 1.4.2 Film Formation; References; 2 Interfacial Phenomena;<br>2.1 Thermodynamic Consideration; 2.1.1 Emulsification of Oil in Water;<br>2.1.2 Interfaces; 2.1.3 Surfactant Molecules Adsorbed at an Interface;<br>2.2 Surfactants; 2.2.1 Critical Micelle Concentration (CMC); 2.2.2<br>Hydrophile-Lipophile Balance (HLB); 2.2.3 Solubility Parameter; 2.3<br>Colloidal Stability; 2.3.1 Van der Waals Forces; 2.3.2 Electrostatic<br>Interactions; 2.3.3 Steric Interactions; 2.3.4 Kinetics of Flocculation;<br>References; 3 Particle Nucleation Mechanisms |

3.1 Micellar Nucleation 3.1.1 Harkins-Smith-Ewart Theory; 3.1.2 Competitive Absorption of Free Radicals by Micelles and Particle Nuclei; 3.2 Homogeneous Nucleation; 3.2.1 Formation of Particle Nuclei in the Continuous Aqueous Phase; 3.2.2 Hansen-Ugelstad-Fitch-Tsai (HUFT) Model; 3.3 Coagulative Nucleation; 3.3.1 General Features of Coagulative Nucleation; 3.3.2 Coagulative Nucleation Model Development; 3.4 Mixed Mode of Particle Nucleation Mechanisms; 3.5 Surfactant-Free Emulsion Polymerization; 3.6 Experimental Work on Particle Nucleation; 3.6.1 A Dilemma about Particle Nucleation Mechanisms 3.6.2 Some Representative Experimental Data of Particle Nucleation 3.6.3 Some Potential Techniques for Studying Particle Nucleation; 3.6.4 Effects of Surfactant Concentration on Particle Nucleation; 3.7 Nonionic and Mixed Surfactant Systems; 3.7.1 Nonionic Surfactant Systems; 3.7.2 Mixed Anionic and Nonionic Surfactant Systems; References; 4 Emulsion Polymerization Kinetics; 4.1 Emulsion Polymerization Kinetics; 4.1.1 Smith-Ewart Theory; 4.1.2 Pioneering Kinetic Models for Predicting Average Number of Free Radicals per Particle; 4.2 Absorption of Free Radicals by Latex Particles 4.2.1 Collision- and Diffusion-Controlled Models 4.2.2 Propagation-Controlled Model; 4.2.3 Some Controversial Issues; 4.3 Desorption of Free Radicals Out of Latex Particles; 4.3.1 Desorption of Free Radicals in Emulsion Homopolymerization Systems; 4.3.2 Desorption of Free Radicals in Emulsion Copolymerization Systems; 4.3.3 Effect of Interfacial Properties on Desorption of Free Radicals; 4.4 Growth of Latex Particles; 4.4.1 Thermodynamic Consideration; 4.4.2 Concentrations of Comonomers in Emulsion Copolymerization Systems; 4.4.3 Competitive Growth of Latex Particles 4.5 Polymer Molecular Weight

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## Sommario/riassunto

Up-to-date coverage of methods of emulsion polymerization This book provides a comprehensive reference on emulsion polymerization methods, focusing on the fundamental mechanisms and kinetics of each process, as well as how they can be applied to the manufacture of environmentally friendly polymeric materials. Topics covered include: Conventional emulsion polymerization Miniemulsion polymerization Microemulsion polymerization Industrial emulsion polymerization processes (primarily the semibatch and continuous reactions systems) The role of various colloidal

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| 2. Record Nr.           | UNINA9910702238903321  |
| Titolo                  | Energy [[electronic resource] ] : uranium for nuclear reactor : agreement between the United States of America and other governments, signed at Vienna, July 13, 29, and August 1, 2011, with annexes      |
| Pubbl/distr/stampa      | [Washington, D.C.] : , : U.S. Dept. of State, , [2012?]  |
| Descrizione fisica      | 1 online resource (25 unnumbered pages)  |
| Collana                 | Treaties and other international acts series ; ; 11-801  |
| Soggetti                | Uranium as fuel - Government policy - United States<br>Uranium as fuel - Government policy - Mexico<br>Nuclear fuels - Law and legislation - United States<br>Nuclear fuels - Law and legislation - Mexico |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Note generali           | Title from title screen (viewed on Oct. 31, 2012).   |

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| 3. Record Nr.           | UNISA996558569803316   |
| Titolo                  | Advanced Communication and Intelligent Systems [[electronic resource] ] : Second International Conference, ICACIS 2023, Warsaw, Poland, June 16–17, 2023, Revised Selected Papers, Part II // edited by Rabindra Nath Shaw, Marcin Paprzycki, Ankush Ghosh   |
| Pubbl/distr/stampa      | Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023  |
| ISBN                    | 3-031-45124-4  |
| Edizione                | [1st ed. 2023.]  |
| Descrizione fisica      | 1 online resource (XVIII, 283 p. 97 illus., 77 illus. in color.)   |
| Collana                 | Communications in Computer and Information Science, , 1865-0937 ; ; 1921   |
| Disciplina              | 006  |
| Soggetti                | Image processing - Digital techniques<br>Computer vision<br>Artificial intelligence<br>Computer engineering<br>Computer networks<br>Data protection<br>Application software<br>Computer Imaging, Vision, Pattern Recognition and Graphics<br>Artificial Intelligence<br>Computer Engineering and Networks<br>Data and Information Security<br>Computer and Information Systems Applications  |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Nota di contenuto       | Enhanced Prediction of Heart Disease using Machine Learning and Deep Learning -- Machine Learning-Powered Tool for Automated Healthcare Diagnosis -- Development and Evaluation of an Artificial Intelligence-Based System for Pancreatic Cancer Detection and Diagnosis -- Comparative Analysis of Deep Learning Architectures for Garbage Classification -- Developing an Automated System for Pothole Detection and Management using Deep Learning -- Robust Neurodegenerative Disease Detection Using Machine Learning |

Algorithms -- Real-Time Drowsiness Detection System Using Machine Learning -- Hate Speech Detection in Multi-Social Media Using Deep Learning -- Collating Weather Data and Grocery Cost using Machine Learning Techniques -- Breast Cancer Detection by using Decision Tree -- Integrating Scene and Text Recognition for Improved Scene Caption to assist Visually Impaired -- Sugarcane Leaf Disease Classification using Deep Learning -- An Analysis of Current Advancements: Elderly Fall Detection Systems Using Machine Learning Techniques -- DLMEKL: Design of an efficient Deep Learning Model for analyzing the effect of ECG & EEG disturbances on Kidney, Lungs and Liver functions -- A Comprehensive Review of the Latest Advancements in Large Generative AI Models -- Integration of IoT and Industry 4.0: Revolutionizing Industrial Processes -- Artificial Intelligence based Optimized Traffic Diversion System in Smart Cities -- Cloud Computing Enabled Autonomous Forest Fire Surveillance System Using Internet-of-Things -- Understanding Career Trajectories of IT professionals -A Machine Learning Approach -- RECOGNITION OF VARIETIES OF RICE USING DEEP LEARNING TECHNOLOGIES -- Optimizing Pneumonia Diagnosis through Local Binary Pattern and 2D-Wavelet Transform Based Feature Extraction and Classification -- Recognition of Infant Footprint: A Review of Advanced Techniques -- Method Comparison for Predicting Student Retention at a Private School in Indonesia -- Distribution and Semantics of Terms with the Component 'White' in the Bulgarian Language: a Statistical Approach -- Sanskrit OCR System -- Information Technology and Fintech Innovation and its effect on Indian Financial Services -- Application of Neural Networks and Genetic Algorithms in establishing Logical Rules for evaluating the edibility of Mushroom Data -- A Review on Machine Learning based Security in Edge Computing Environment -- Multiple linear regression based analysis of weather data : Assumptions and Limitations -- Ransomware Taxonomy and Detection Techniques Based on Machine Learning: A Review -- Analysis And Design of Document Similarity Using BiLSTM and BERT -- Customer Churn Analysis for Live Stream E-Commerce Platforms by Using Decision Tree Method -- Estimation of Reliability, BER, BLER and throughput during the coexistence of 4G LTE and 5G NR -- Sentiment Analysis of user-generated data using CNN-BiLSTM model -- Performance of Bayesian Networks Classification Models for Tuberculosis Patient Outcome Prediction with Imbalanced Dataset -- Exploring the Future of Edge Computing: Advantages, Limitations, and Opportunities -- Development of Facial Emotion Recognition System using Unimodal and Multimodal approach -- Fake Product Review Detection Using Machine Learning -- A survey on Designing Efficient WSN using Duty Cycle optimization -- A Novel Framework for Harnessing AI for Evidence-Based Policymaking in E-Governance Using Smart Contracts -- Vehicular Ad-hoc Networks: A Review on Applications & Security -- An Approach for Efficient Experts Selection in Team Formation Problems -- Cybersecurity Model for Mobile and Web Application Banking Sectors.

## Sommario/riassunto

This book constitutes the refereed proceedings of the Second International Conference on Advanced Communication and Intelligent Systems, ICACIS 2023, held in Warsaw, Poland, during June 16–17, 2023. The 43 full papers included in this book were carefully reviewed and selected from 221 submissions. They were organized in topical sections as follows: Wireless Communication, Artificial Intelligence and Machine Learning, Robotics & Automation, Data Science, IoT and Smart Applications.

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| 4. Record Nr.           | UNINA9910674353903321   |
| Titolo                  | Brazilian Mangroves and Salt Marshes // edited by Yara Schaeffer-Novelli, Guilherme Moraes de Oliveira Abuchahla, Gilberto Cintrón-Molero   |
| Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023   |
| ISBN                    | 3-031-13486-9   |
| Edizione                | [1st ed. 2023.]   |
| Descrizione fisica      | 1 online resource (398 pages)   |
| Collana                 | Brazilian Marine Biodiversity, , 2520-1085  |
| Disciplina              | 574.526325<br>577.6980981   |
| Soggetti                | Ecology<br>Physical geography<br>Conservation biology<br>Freshwater ecology<br>Marine ecology<br>Environmental Sciences<br>Earth System Sciences<br>Conservation Biology<br>Freshwater and Marine Ecology   |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Nota di bibliografia    | Includes bibliographical references and index.  |
| Nota di contenuto       | Part I - Tropical and Subtropical Brazilian Coastal Zone -- 1. Brazilian Coastal Zone: Mangroves and Salt Marshes -- 2. Zonation and succession of mangrove and salt marsh ecosystems: typical and associated vegetation species -- Part II - The Mangrove Ecosystem -- 3. Variability of Mangroves along the Brazilian Coast -- 4. Ecophysiological and phenology aspects of mangrove species on the Brazilian coast -- 5. Genetic and epigenetic diversity of mangrove plants: markers of adaptation in a changing environment -- 6. A Review on litterfall in Brazilian mangroves -- Part III - The Salt Marsh Ecosystem -- 7. Brazilian salt marshes -- Part IV - The Mangroves and Salt Marshes Associates -- 8. Microbial diversity and microbial food chain -- 9. Brazilian mangrove and salt marsh macroalgal communities |

-- 10. Invertebrates: Ecology macro and meiofauna associated with mangroves and marshes Brazilian -- 11. Biodiversity, ecology and socioeconomic importance of brachyuran crabs from Brazilian mangroves and salt marshes -- 12. Fish composition in mangroves and salt marshes along the Brazilian coast -- 13. Birds associated with mangroves and salt marshes in Brazil -- 14. Marine mammals and mangroves and mangroves and salt marshes in Brazil: past, present and potencial scenarios -- Part V - Conservation Strategies -- 15. Historical ecology of mangroves: investigating the past to conserve the future -- 16. Economic valuation as a tool for conservation of the Brazilian marine biodiversity of mangrove and salt marsh ecosystems -- 17. Mangrove protected areas in Brazil: controversies and perspectives -- 18. Contributions of environmental education to mangrove conservation -- 19. Mangrove and salt marsh ecosystems: what to expect from climate changes -- 20. Coastal zone adaptive management -- Index.

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### Sommario/riassunto

This book offers a new ecosystemic approach to the understanding of mangrove and salt marsh ecosystems. Brazil has one of the largest areas of mangroves in the world, where salt marshes might or might not be associated. Different landscapes comprise the extensive coastline, where mangrove and salt marsh species' composition is discussed through the analysis of physiography, zonation, and succession processes. Both salt marsh and mangrove plants and the associated macroalgae will be characterized in their ecophysiological and phenological aspects, as well as genetic and epigenetic diversity. The chapters on microbial diversity and litterfall expose the well-known importance of these ecosystems as highly productive carbon sinks and pumps. The associated fauna of invertebrates (benthic meio and macrofaunas, especially brachyuran crabs) and vertebrates (fishes, birds, and mammals) are presented in a special section. The conservational approach encompasses issues, such as historical ecology, economic valuation, protected areas, environmental education, climate changes, and adaptive management.

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